

Geotechnical Laboratory PO Box 4339 1570 Bear Creek Road Oak Ridge TN 37830 865/482-6497

#### CERTIFICATE OF ANALYSIS

Stephen Trent Fluor Hanford, Inc. 825 Jadwin Avenue Richland, Washington 99352 January 20, 2004

This is the Certificate of Analysis for the following samples:

Shaw Project ID:

Shaw Project Number:

Client Sampling Authorization Form No.

Client Sample Data Group:

Date Received by Lab:

Number of Samples:

Sample Type:

Eberline - Hanford 100846.05000000

F03-020

H2489

January 9, 2004

One (1)

Soil



#### I. <u>Introduction/Case Narrative</u>

One soil sample was received by the Shaw Geotechnical Laboratory on January 9, 2004. The samples was submitted for determination of particle-size distribution and moisture content. The sample number received was B183P0.

Please see Appendix A, Sample Number Cross Reference List; Appendix B, Analysis Results; and Appendix C, Chain-of-Custody/Sample Receipt Records.

"I certify that this data package is in compliance with the SOW, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or a designee, as verified by the following signature."

Reviewed and Approved:

Ralph Cole

Laboratory Manager, Geotechnical Services

RECEIVED

**EDMG** 

400032

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January 20, 2004
Steven Trent
Fluor Hanford, Inc.
Shaw Project Name: Eberline Hanford
Shaw Project No. 100846.05000000
SAF No. F03-020
SDG No. H2489

Shaw Geotechnical Laboratory Oak Ridge TN 865/482-6497

### II. Analytical Results/Methodology

REFERENCES: United States Army Corps of Engineers (USACE), Engineer Manual 1110-2-1906, Laboratory Soils Testing, appendix II, 1970; United States Environmental Protection Agency, SW846, Test Methods for Examining Solid Waste, Physical/Chemical Methods, 3rd ed., Nov 1986 (EPA SW-846). Annual Book of ASTM Standards, Section 4, Construction, Volume 04.08, Soil and Rock (I), and Volume 04.09, Soil and Rock (II), 2003. Shaw Environmental and infrastructure, Standard Operating Procedures.

#### III. Quality Control

Quality control checks such as duplicates and spikes (QC samples), are not normally applicable to geotechnical testing. This is due largely to the inability of obtaining samples with known characteristics, the heterogenous nature of the samples, and quality control procedures built-in to the analytical method.

QC measures to ensure accuracy and precision of test results include the following:

- 100% verification of all numerical results raw data entries, transcriptions and calculations entered by lab technicians are checked, recalculated and verified. Most data calculations are performed by computer programs.
- Data validation through test reasonableness summaries of all test results for individual reports are reviewed to determine the overall reasonableness of data and to determine the presence of any data that may be considered outliers.
- Quality control procedures are built into most standardized geotechnical procedures. For example, liquid limit and plastic limit analyses call for re-analyses and specify acceptance criteria.
- Routine instrument calibration instruments, gauges and equipment used in testing are calibrated on a routine basis. All instrument calibration follows ASTM or manufacturer guidelines.
- Maintenance of all past calibration records calibration records and certification documents of all instruments, gauges and equipment are updated routinely and maintained in the Quality Control Coordinators Quality/Operations files.

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- Certified and trained personnel all technicians are certified by the National Institute for Certification of Engineering Technicians (NICET) in geotechnical soil testing, and are trained in the application of standard laboratory procedures for geotechnical analyses as well as the quality assurance measures implemented by Shaw.
- Quantitative analyses frequently used in geotechnical/physical testing programs do
  not use QC tools common to wet chemistry or radiochemistry laboratories. Measures
  not employed in the analysis of samples reported in this report include: laboratory
  control samples (LCS), blanks, matrix spikes (MS), duplicate analyses, dilutions,
  digestions, correction factors, surrogate sample analyses, detection limit
  determinations, control charts, and/or tentatively identified compounds (TICs).

#### IV.Data Qualification

Two moisture content results are reported. One data page reports the moisture content of a sample aliquot submitted for "moisture content" determination. The second moisture result is reported on the grainsize report sheet, and was determined using excess material from the grainsize test specimen.

## Appendix A Sample Cross-Reference List

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Shaw Project Name: Eberline Hanford Shaw Project No. 100846.050000000 SAF No. F03-020 SDG No. H2489

**Shaw Geotechnical** Laboratory Oak Ridge TN 865/482-6497

### SAMPLE NUMBER CROSS-REFERENCE LIST

| LAB SAMPLE NO. | CLIENT SAMPLE NO. | MATRIX |
|----------------|-------------------|--------|
|                |                   |        |
| BC0257         | B183P0            | Soil   |

### Appendix B Sample Test Results

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Shaw Geotechnical Laboratory Oak Ridge TN 865/482-6497

### **MOISTURE CONTENT**

PROJECT NAME

Eberline - Hanford

PROJECT NUMBER

100846.04000000

| IT LAB<br>SAMPLE NO. | CLIENT<br>SAMPLE NO. | MOISTURE, %<br>ASTM D 2216            | MOISTURE, %<br>SW846 | SOLIDS, %<br>SW846 |
|----------------------|----------------------|---------------------------------------|----------------------|--------------------|
| BC0257               | B183P0               | 2.1                                   | 2.1                  | 97.9               |
|                      |                      |                                       |                      |                    |
|                      |                      |                                       |                      |                    |
|                      |                      | · · · · · · · · · · · · · · · · · · · |                      | , ,                |
|                      |                      |                                       |                      |                    |
|                      |                      |                                       |                      |                    |
|                      |                      |                                       |                      |                    |
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|                      |                      |                                       |                      |                    |
|                      |                      |                                       |                      |                    |
|                      |                      |                                       |                      |                    |
|                      |                      |                                       |                      |                    |
|                      |                      |                                       |                      | ·                  |
|                      |                      |                                       |                      |                    |

ASTM D 2216 results are based on dry sample weight. SW846 results are based on wet sample weight. Solids content is determined by subtracting the SW846 moisture (%) from 100. Page 6 of 14 January 20, 2004 Steven Trent Fluor Hanford, Inc.

Shaw Project Name: Eberline Hanford Shaw Project No. 100846.05000000

SAF No. F03-020 SDG No. H2489 Shaw Geotechnical Laboratory Oak Ridge TN 865/482-6497

# PARTICLE-SIZE ANALYSIS ASTM D 422

Project Name

Eberline - Hanford

Client Sample No.

B183P0

Project No.

100846.04000000

Lab Sample No.

BC0257

Specific Gravity = 2.65 assumed for calculations

Moisture Content = 2.4% based on dry sample weight

#### SIEVE ANALYSIS

|        | Sieve  | Diameter | Percent |  |  |
|--------|--------|----------|---------|--|--|
| С      | No.    | mm       | Finer   |  |  |
| 0      | 3"     | 75.000   | 100.0%  |  |  |
| Α      | 1.5"   | 37.500   | 100.0%  |  |  |
| R      | 0.75"  | 19.000   | 100.0%  |  |  |
| S<br>E | 0.375" | 9.500    | 100.0%  |  |  |
| _      | #4     | 4.750    | 99.9%   |  |  |
|        | #10    | 2.000    | 98.8%   |  |  |

|    | Sieve | Diameter | Percent |  |  |  |
|----|-------|----------|---------|--|--|--|
|    | No.   | mm       | Finer   |  |  |  |
| F  | #20   | 0.850    | 88.7%   |  |  |  |
| 1  | #40   | 0.425    | 56.1%   |  |  |  |
| N  | #60   | 0.250    | 37.0%   |  |  |  |
| E. | #100  | 0.149    | 26.8%   |  |  |  |
|    | #140  | 0.106    | 22.4%   |  |  |  |
|    | #200  | 0.075    | 18.8%   |  |  |  |

#### HYDROMETER ANALYSIS

|        | Diameter | Percent |
|--------|----------|---------|
|        | mm       | Finer   |
| H      |          |         |
| Y<br>D | 0.04768  | 16.1%   |
| R      | 0.03440  | 13.5%   |
| 0      | 0.02222  | 10.4%   |
| M      | 0.01307  | 7.8%    |
| E      | 0.00932  | 6.5%    |
| E      | 0.00666  | 4.8%    |
| R      | 0.00457  | 3.5%    |
|        | 0.00272  | 2.2%    |
|        | 0.00138  | 1.3%    |

0.1% Gravel

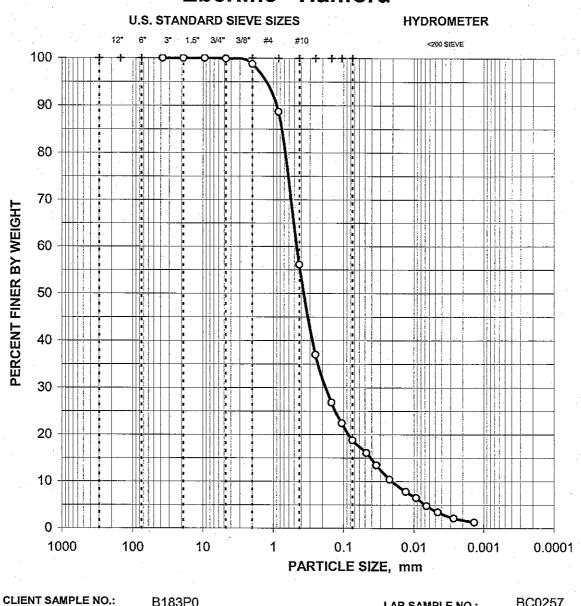
81.1% Sand

18.8% Silt/Clay

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#### Eberline - Hanford



| SAI | MPLE N           | 10.:             | B183        | PO               |             |                            |    |       | LAB SAMPLE NO | .:   | BC0257 |
|-----|------------------|------------------|-------------|------------------|-------------|----------------------------|----|-------|---------------|------|--------|
|     | В<br>О<br>U<br>L | C<br>O<br>B      | GR          | AVEL             |             | . ·                        |    |       |               |      |        |
|     | D E R S          | B<br>L<br>E<br>S | C O A R S E | F<br>I<br>N<br>E | C O A R S E | M<br>E<br>D<br>I<br>U<br>M | 1. | =<br> | Silt/0        | Clay |        |

### Appendix C Chain-of-Custody and Request-for-Analysis Records

| FLUOR Hanford  | d Inc.  | CE   | CENTRAL PLATEAU CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST   |                       |  |           |        |                                 |          |                                       | 3-020-028 | Page <u>1</u> | T. Control of the Con |
|--|---|--|--|-----------------------|--|-----------|--------|---------------------------------|----------|---------------------------------------|-----------|---------------|--|
| Collector<br>Pope/Hughes/Pfister   |   |  | pany Contact<br>eve Trent  | Telepho<br>373-5      |  |           |        | Project Coordi<br>TRENT, SJ     | nator    | Price Code                            | -814 EH4  | ) Data Tu     | rnaround   |
| Project Designation<br>216-B-26 Characterization Sa  | mpling - Soil Sampling  |  | oling Location<br>245 (247.5-250 ft)   |                       |  |           |        | SAF No.<br>F03-020              |          | Air Quality                           |           | 5 30          | Days<br>-ONYS  |
| Ice Chest No. RM-  | 3-001   | Field<br>Hi  | Logbook No.  |                       | COA<br>119142ES                        | 10        |        | Method of Ship<br>Federal Expre |          | 0                                     | MAB 1/(   | 1104          |  |
| Shipped To<br>Shaw Group   |   |  | te Property No.  | Tel                   | PTR                                    |           |        | Bill of Lading/                 | Air Bill | No. Eli                               | PTC       |               |  |
| POSSIBLE SAMPLE HAZA   | rds/remarks<br>318533   |  | Preservation   | None                  | None                                   |           |        |                                 |          |                                       |           |               |  |
| Special Handling and/or S  | torage  |  | Type of Container  | Moisture<br>Resistant | Liner                                  |           |        |                                 |          |                                       |           |               |  |
|  | ₹<br>-  |  | No. of Container(s)  | 1                     | 1 1000                                 |           | ļ      |                                 |          |                                       |           |               | ļ  |
| SDGH HZ  | 489   |  | Volume   | 200g                  | 1000g                                  |           |        |                                 |          | ,                                     |           |               |  |
|  | SAMPLE ANALYSIS   |  |  |                       | Particle Size<br>(Dry Sieve) -<br>D422 |           |        |                                 |          |                                       | 4.        |               |  |
|  |   |  | · : : : : : : : : : : : : : : : : : : :  |                       | ٠.                                     |           |        |                                 |          |                                       |           |               |  |
| Sample No.   | Matrix *  | Sample Date  |  |                       |  |           |        |                                 |          |                                       |           |               |  |
| B18970   | SOIL  | 12-30-0  | 13 09/0  | ×                     | X                                      | ·         |        |                                 |          | · · · · · · · · · · · · · · · · · · · | <br>  BC  | 025           | 7  |
| Level.   |   |  |  |                       |  |           |        |                                 |          |                                       | † 5,      | . 023         | ,  |
|  |   | <del> </del>   |  |                       |  |           |        |                                 |          |                                       | *         |               |  |
|  |   |  |  |                       |  |           |        |                                 |          |                                       |           |               | <u> </u>   |
| CHAIN OF POSSESSION Relinquished By/Removed From T. Store J. Jan. 12.3 Relinquished By/Removed Edom Delinquished By/Removed Ham Delinquished By/Removed Ham  | Date/Time  10.03 //06    10.04 / 0725   Date/Time 0725   Date/Time 0725 | Sign/Prin Received By/Sto Who 426/ Received By/Sto Received By/Sto | red in De Control (2) | ate/Time              | * 1                                    | IAL INSTR |        | ns<br>H24                       | 89       |                                       |           |               | Matrix *  S=Soil SE=Sediment SO=Soild Si=Studge W = Water C=Oil A=Alr DS=Drain Solids DL=Drain Liquids T=Tissue  |
| Retinquished By/Removed From Date/Time Received By/Stored In Date/Time Retinquished By/Removed From Date/Time Received By/Stored In Date/Time Date/Date/Date/Date/Date/Date/Date/Date/ |   |  |  |                       | )                                      |           |        |                                 | •        |                                       |           | 4             | WI≠Wipe<br>L≠Liquid<br>V=Vegetation<br>X≠Other   |
| telinquished By/Removed From Date/Time Received By/Stored In   |   |  |  | ate/Time              |  | •         |        |                                 |          |                                       |           |               |  |
| LABORATORY Received By SECTION   | Mulle   | SH   | AW E & I   | 1/9/                  | 04 @                                   | 1040      |        |                                 |          |                                       | Dat       | e/Time        |  |
| FINAL SAMPLE Disposal Met DISPOSITION  | thod  |  |  |                       |  | Dispo     | sed By |                                 |          |                                       | .Da       | te/Time       |  |

PAGE 1

SDG # H2489 Eberline Srvces CHAIN OF CUSTODY ORD # R4-01-035

01/08/04 12:32:58 WORK ID: SAF# F03-020 SDG H2489

RCVD: 01/08/04 DUE: 01/22/04

KEEP: 01/21/05 DISP: S

DASH SAMPLE IDENTIFICATION STORED TESTS

01A-5 B183P0 SHAW-LAB DISPOS E331S E333S

| RELEASED BY | DATE   | TRANSFERRED TO | DATE   | RECEIVED BY | <u>DATE</u> |
|-------------|--------|----------------|--------|-------------|-------------|
| Ten Ch      | 1-8-04 | SHAW           | 1-8-04 | Sululli     | 1/9/04 C 10 |
|             |        |                |        |             |             |
|             |        |                |        |             |             |

PAGE 1 Eberline Srvces
CONTRACT: PO# RSH-SOW-93-0003

## PURCHASE ORDER # R4-0 01/08/04 12:32:38

| ORDER Eberline Services/Richmond   | INVOICE Eberline Services/R    | i chmond   |
|------------------------------------|--------------------------------|--|
| FROM Analytical Services           | TO Analytical Services         |  |
| 2030 Wright Avenue                 | 2030 Wright Avenue             |  |
| Richmond, CA 94804-0040            | Richmond, CA 94804             | -0040 Lyannamo fo  |
| ATTEN Purchasing                   | ATTEN <u>Purchasing</u>        | agarmama Jo  |
| PHONE 510-235-2633                 | PHONE 510-235-2633             | AUTHORIZED BY  |
|                                    |                                |  |
| ORDER Shaw Geotechnical Laboratory | Please telephone our Sample Co | ontrol Department immediately if   |
| TO 1570 Bear Creek Road            | any problems are encountered   | in the receipt or the analysis of  |
| Oak Ridge, TN 37830                | the samples listed below.      |  |
|                                    |                                | and the second s |
| ATTEN Ralph R. Cole                | This Purchase Order authorize  | s Shaw to perform all work   |
|                                    | listed on the enclosed COC.    | Alterations to work requested can  |
|                                    | only be made by Eberline Serv  | ices or the appropriate Hanford  |
|                                    | client.                        |  |
|                                    | PP100 00PE: 80                 |  |
| FRACTION TEST DESC                 | RIPTION UNITS                  | DUE DATE COST  |
|                                    |                                |  |

| FRACTIO   | N TEST | DESCRIPTION  | UNITS                          | DUE DATE | COST   |
|-----------|--------|--|--------------------------------|----------|--------|
| 01A       | E331S  | D422 Particle Size-Dry Sve<br>D2216 Moisture Content | Please Advise<br>Please Advise | 01/22/04 | 0.00   |
| . <b></b> |        |  | AL CHARGE NOT TO               |          | \$0.00 |

SDG# H2489

PAGE 1

Eberline Srvces

WORK SHEET

ORD # R4-01-035

CLIENT: WES\_HANFORD CON: KCJ PROJ: WHC FLR

CAT: ENVHSW 01/08/04 12:32:50

RCVD: 01/08/04 DUE: 01/22/04

STAT: TRANSMITTED 01/08/04

DASH SAMPLE IDENTIFICATION STORED 01A, S/B183P0

DEPT START DUE BY TESTS, FRACTIONS /

SHAW-LAB EN 01/08 01/08 | DISPOS

SU SW 12/13 01/22 | E331S E333S

### WSCF ANALYTICAL RESULTS REPORT

| Attention:<br>Project: |       | 'e Trent<br>-020: F03-02 |                   |        |                |    |        | Group #: |        | WSCF20031719 |                            |
|------------------------|-------|--------------------------|-------------------|--------|----------------|----|--------|----------|--------|--------------|----------------------------|
| Sample # Client ID     |       | CAS#                     | Test Performed    | Matrix | WSCF<br>Method | RQ | Result | Unit     | DF     | MDL          | Analyze Sample Receive     |
| Radiochemistry         |       |                          |                   |        |                |    |        |          |        |              | 1                          |
| W030001228 B18533 GPP  | TRENT | 12587-46-1               | Gross alpha       | SOIL   | LA-508-421     |    | 16,0   | pCi/g    | 1.00   | 1.1          | 12/30/03 12/30/03 12/30/03 |
| W030001228 B18633 GPP  | TRENT | E,T,C                    | Alpha error by LC | SOIL   | LA-508-421     |    | 4- 4.8 | pCl/g    | , 1,00 | 0.0          | 12/30/03 12/30/03 12/30/03 |
| W030001228 B18533 GPP  | TRENT | 12587-47-2               | Gross beta        | SOIL   | LA-508-421     |    | 91.0   | pCl/g    | 1.00   | 1.4          | 12/30/03 12/30/03 12/30/03 |
| W030001228 B18533 GPP  | TRENT | E.T.C                    | Beta error by LC  | SOIL   | LA-508-421     |    | +·· 14 | pCi/g    | - 1.00 | 0.0          | 12/30/03 12/30/03 12/30/03 |

Tuto B183PO & B183N8

00015

MDL=Minimum Detection Limit RQ=Result Qualifier

Ground Water Protection Program

DF=Dilution Factor

 $^{\circ}$  - Indicates results that have NOT been validated;  $^{\circ}$  + - Indicates more than six qualifier symbols  $Report\ WGPP/ver.\ I$ 

|                  |                                      |             | PROJECT I                            | PART           | 'S AND TOOL!<br>ORD, 2355 ST                        | S RETURN<br>EVENS DR | l (PTR)<br>I., RICI                          | ) FORM<br>HLAND, W                     | A 99352                               |                      |
|------------------|--------------------------------------|-------------|--------------------------------------|----------------|---|----------------------|--|--|---------------------------------------|----------------------|
| <del></del>      |                                      | <del></del> | Source of Materia                    |                | · · · · · · · · · · · · · · · · · · ·               |                      | , •  |  |                                       | PTR No.              |
| MR No.           | N/A                                  |             |                                      | lo. N/A        | <u> </u>  | Buyer <u>N/A</u>     |  |  |                                       | 12968                |
| Rel. No.         | N/A                                  |             | Cont                                 | act No.        | N/A   | Telephone N/         | A  |  |                                       |                      |
|                  | Log No. 🗵                            | /A          | OI                                   | her <u>N/2</u> |   |                      |  |  |                                       |                      |
| Date             |                                      | F.O.        |                                      |                | ipment Authorized by:                               |                      |  |  |                                       | Total Pieces         |
| 01/0             | 6/03                                 |             |                                      | Pri            | nt Name: M. A. I                                    | BAECHLER             |  |  |                                       | 1                    |
| Ship To          | EBERI                                | INE         | SERVICES                             |                |   | For Account C        | of: FLUO                                     | R HANFORD,                             | INC.                                  |                      |
|                  | 2030                                 | WRIG        | HT AVENUE                            |                |   |                      | 2355   | STEVENS D                              | RIVE                                  |                      |
|                  | RICHN                                | IOND,       | CA 94804                             |                | ·   |                      | RICH   | LAND, WA 9                             | 9352                                  |                      |
|                  |                                      |             |                                      |                |   |                      |  |  |                                       |                      |
|                  | •                                    |             |                                      |                | -   |                      | ATTN   | : MIKE BAE                             | CHLER, 300, MO                        | -026                 |
| Contact          | MELIS                                | SSA M       | ANNION                               |                |   |                      |  |  |                                       |                      |
|                  | ·                                    |             | 0) 235-263                           | 3              |   | ·  -                 |  |  |                                       |                      |
| RA No.:          |                                      | ··· <u></u> |                                      |                |   | •                    |  |  |                                       |                      |
| Line<br>Item No. |                                      | U/M         |                                      | Descriptio     | n (Catalog ID No., Se                               | rial No., Gov. Ta    | ıg No.)                                      | T                                      | Unit Price                            | Value                |
| 1                | 1                                    | EA          | ENVIRONMEN                           | TAL SA         | MPLES PACKAGE                                       | ED IN POLY           | COOLE  | R WITH                                 | N/A                                   | N/A                  |
|                  |                                      |             | PACKING PE                           |                | 0.01  |                      |  |  |                                       | ٠.                   |
|                  |                                      |             | COOLER # G<br>SAF # F03-             | •              | -001  | •                    |  |  |                                       | •                    |
| ļ ·              |                                      |             |                                      | 790            | 1845 670  | 2                    |  |  |                                       |                      |
|                  |                                      |             | 25 LB                                |                |   |                      |  |  |                                       |                      |
|                  |                                      |             |                                      |                |   | -                    | <u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u> |  |                                       | <u> </u>             |
| 1                |                                      |             | T: (Check one)                       |                |   |                      | ELLANEO                                      | •                                      |                                       | 4.                   |
| 1                |                                      |             | edit (Money Only)<br>Benlacement and | -              | ceipt Hequirea<br>r - Qty Receipt Require           |                      |  | tract/P-Card/Nor<br>e - Return for Cra | •                                     |                      |
| · ·              |                                      |             | PHMC Inventory                       | , riopan       | aty 17000 pt 170 quit                               |                      | epair  | 7,000,11101 010                        | on or boposit                         |                      |
| ☐ ove            | e <b>r</b> - Return                  | Over S      | hipment (No Rece                     | eipt/Not a     | Credit)   |                      |  |  | als, Containers, Sam                  | oles, etc.           |
| ****             | [_]                                  | عمالت       | andrelling Durch                     | non Orda       | Contract or PUNC                                    |                      |  | Material for Disp                      |                                       |                      |
| Proper<br>Regula | es identino<br>ty Custodia<br>fions. | an acco     | untable for the Go                   | vt. prope      | r, Contract, or PHMC<br>ty in accordance with       |                      | nip Govi. (<br>THER                          |  | , Containers, Sample                  | s, etc.              |
| <del></del> -    | ous Materi                           | al:         | Yes* ⊠ No                            | *T&P Ins       | pection (reg'd):                                    | 1                    |  | Free of Contamir                       | nation: X Yes                         | No                   |
| Radioa           | ctive Mate                           | ial: [      | Yes* ⊠ No                            |                | appropriate shipping di<br>live Material is also ha | ocument.             |  | Name/Date                              |                                       | ,                    |
| Rad. Co          | ontrol Surv                          | ey: [       | Yes 🛭 No                             | nauloac        | ·   |                      |  |  |                                       |                      |
| Custodi          | an: M. A                             | . BA        | ECHLER                               |                | Current Lo  | /300 AREA            |  |  | 0000                                  | e Available to Ship: |
| Telepho          | one: <u>531</u>                      | -063        | 8                                    |                |   |                      |  |  | UUUU                                  | 11/06/03             |
| Item             | % Cost                               | Cost C      | enter CACN                           | COA            | Shipping Departmen                                  | t                    |  |  |                                       |                      |
| 1                | 100                                  | M4P         | 00 119142                            | ES20           | Routing FEDEX A                                     | IR_                  |  | By CR NEL                              | SON                                   |                      |
| 1                | . •                                  |             |                                      |                | B/L No. 7900-18                                     |                      |  | 1                                      | 01/06/2004                            |                      |
|                  | ,                                    |             |                                      |                | B/L Wt. 25 LBS                                      |                      |  | 1                                      |                                       | •                    |
|                  |                                      |             |                                      |                | Frt. Collect  |                      |  | l                                      | ∍ No                                  |                      |
| <u> </u>         |                                      |             |                                      |                | ł ·   |                      |  | Ì                                      | ,                                     |                      |
|                  |                                      |             |                                      |                | Acct. No.   | <u></u>              |  | TROUBLING.                             | · · · · · · · · · · · · · · · · · · · |                      |
| į.               |                                      |             | 1                                    |                | L   |                      |  |  |                                       |                      |

S-HAW



## RICHMOND, CA LABORATORY

#### SAMPLE RECEIPT CHECKLIST

| Client: _   | FLR   |              |              | Cit          | * K1      | CATAN                                  | Distribution  | State          | WA       |  |
|---|---|--------------|--------------|--------------|-----------|--|---------------|----------------|----------|--|
| Date/Time received 1-8-04 1000 Coc No. F03-020-0 28 |   |              |              |              |           |  |               |                |          |  |
|   | :   |              |              | -            |           |  |               |                |          |  |
| Contain   | er I.D. No.   | PP-03-       | <u>(V)</u> R | equested T   | AT (Days) | 15                                     | P.O. Received | Yes [ ]        | No [ ]   |  |
| INSPECTION  |   |              |              |              |           |  |               |                |          |  |
| 1.  | Custody seals   | s on shippi  | ng container | intact?      |           | Yes [                                  | No [          | . ]            | N/A [ ]  |  |
| 2.  | Custody seals   | s on shippi  | ng containe  | r dated & si | gned?     | Yes [                                  | No [          | 1              | N/A [ ]  |  |
| 3.  | Custody seals on sample containers intact?  |              |              |              |           | Yes [                                  | No [          | 1              | N/A [ ]  |  |
| 4.  | Custody seals on sample containers dated & signed                                     |              |              |              |           | Yes [                                  | No [          | 1              | N/A [ ]  |  |
| 5.  | Packing material is: Wet [ ] Dry [ L-]  |              |              |              |           |  |               |                |          |  |
| 6.  | Number of samples in shipping container: Sample Matrix Soll                           |              |              |              |           |  |               |                |          |  |
| 7.  | Number of containers per sample: (Or see CoC)   |              |              |              |           |  |               |                |          |  |
| 8.  | Samples are in correct container  Yes [ ] No [ ]                                      |              |              |              |           |  |               |                |          |  |
| 9.  | Paperwork agrees with samples? Yes [L] No [ ]   |              |              |              |           |  |               |                |          |  |
| 10.   | Samples have: Tape [ / Hazard labels [ ] Rad labels [ ] Appropriate sample labels [ ] |              |              |              |           |  |               |                |          |  |
| 11.   | Samples are: In good condition [1] Leaking [ ] Broken Container [ ] Missing [ ]       |              |              |              |           |  |               |                |          |  |
| 12.   | Samples are: Preserved [ ] Not preserved [ ] pH Preservative                          |              |              |              |           |  |               |                |          |  |
| 13.   | Describe any anomalies:   |              |              |              |           |  |               |                |          |  |
|   |   |              |              |              |           |  |               |                |          |  |
|   |   |              |              |              |           |  |               |                |          |  |
| 14.   | Was P.M. no   | otified of a | ny anomalie  | s? Y         | es[]      | No [, ]                                | Date          | 6-             |          |  |
| 15.   | inspected by  | Mu           | - Q-         |              | Date:     | -80T                                   | Time: 13      | 1040           |          |  |
| <del> </del>  |   |              | 1            |              |           |  |               |                |          |  |
| Custom  | ier Sample  | anm          | mR/hr        | wing         |           | ner Sampl<br>No.                       |               | mP/br          | wine     |  |
|   | No.   | cpm          | 11111/111    | wipe         |           |  | cpm           | mR/hr          | wipe     |  |
|   |   |              |              |              |           |  |               |                |          |  |
|   | •   | <del> </del> |              |              |           | ······································ | <del></del>   |                | <u> </u> |  |
|   |   |              |              |              |           |  |               |                |          |  |
|   |   |              |              |              |           |  |               |                |          |  |
|   |   |              |              | <del></del>  |           |  |               |                | ·        |  |
|   |   |              |              |              |           | <del></del>                            |               | <del>000</del> | 017      |  |
|   |   |              |              |              |           |  |               |                |          |  |
|   |   |              |              |              |           |  | <del></del>   |                |          |  |
| Ion Chamber Ser. No.                                |   |              |              |              |           | Calibrati                              | on date       |                |          |  |
| Alpha Meter Ser. No.                                |   |              |              |              | ÷         | Calibration date                       |               |                |          |  |
| Beta/Gamma Meter Ser. No.                           |   |              |              |              |           | Calibration date                       |               |                |          |  |
| Deta/Gamma Meter Ger. 180.                          |   |              |              |              |           | Cantriali                              | on date       |                |          |  |